

CLAIMS

What is claimed is:

1. A method of transferring satellite digital audio channel information to a radio display module comprising:

sending an indicator to the radio display module corresponding to a version of a channel information table stored in a satellite receiver module;

requesting the satellite receiver module to send the channel information table to the radio display module if the version of the channel information table stored in the satellite receiver module is different from a version stored in the radio display module;

transforming at the satellite receiver module the channel information table into a message protocol structure within a data stream, the message protocol structure including a header portion and a message portion, the header portion including indicators for a size of the message portion and for a type of channel information table to be sent; and

transmitting the data stream to the radio display module.

2. The method of claim 1 wherein the indicator corresponding to a version of a channel information table stored in a satellite receiver module comprises a checksum.

3. The method of claim 1 wherein the header portion further comprises:

an indicator of whether a current record of a table being sent in the protocol structure is a first record of the protocol structure;

an indicator of a total number of records in the table being sent;

an indicator whether a data message in the protocol structure is a first data message of the protocol structure; and

an indicator of a total number of groups in the current record being sent.

4. The method of claim 1 wherein the channel information table includes at least one of the of the group consisting of channel numbers, program type codes, station names, and category names.

5. The method of claim 1 wherein the type of channel information table further comprises at least one of the group consisting of:

a first table including channel numbers;

a second table including short form channel numbers, program type codes, and station names;

a third table including long form channel numbers, program type codes, and station names;

a fourth table including short form program type codes and category names; and

a fifth table including long form program type codes and category names.

6. The method of claim 1 further comprising re-constructing the channel information table in the radio display module.

7. The method of claim 1 further comprising storing at the radio display module the indicator corresponding to the version of the channel information table stored in the satellite receiver module sent to the radio display module.